

Claims

I claim:

- 5 1. A retractable hook assembly for mounting on a surface, comprising:
 - (a) a bracket member having a front side with a retracting groove and at least one positioning channel, a back side adapted for mounting on said surface; and
 - (b) a hook member having a proximal end and a distal end, said proximal end having at least one projection adapted to engage said positioning channel when said hook member is in an extended position;
wherein said front side of said bracket member is adapted to receive said hook member into said retracting groove when in a retracted position thereby concealing said hook member.
- 10 2. A retractable hook assembly as claimed in claim 1 wherein said positioning channel has a top side and a bottom side providing a cam surface, and said projection is a cam whereby said cam engages said top side or cam surface of said positioning channel when said hook member is in said extended position and said cam engages said bottom side or cam surface when said hook member is in said retracted position.
- 15 20 3. A retractable hook assembly as claimed in claim 2 wherein said retracting groove has two sides and has two positioning channels located on either side of said retracting groove.
- 25 4. A retractable hook assembly as claimed in claim 3 wherein said hook member is an arm having two sides, a front side and back side, and
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has two cams on either side of said arm to engage said two positioning channels.

5. A retractable hook assembly as claimed in claim 4 wherein said cams engage said top sides of said positioning channels allowing said arm to extend to a maximum of 45°.
10. A retractable hook assembly as claimed in claim 5 wherein said back side of said bracket member further comprises a series of ribs providing additional strength to said bracket member.
15. A retractable hook assembly as claimed in claim 6 further comprising additional ribs to form said positioning channels and said cam surfaces, thereby engaging and restricting said cams when in either said extended or retracted positions.
20. A retractable hook assembly as claimed in claim 7 wherein said retractable hook assembly holds up to 35 pounds.
25. 9. A retractable hook assembly as claimed in claim 4 wherein said distal end of said arm is adapted to receive a user's finger thereby allowing said user to extend said arm into said extended position.
10. A retractable hook assembly as claimed in claim 9 wherein said distal end of said arm has a pull tab shaped to accommodate said user's finger.
30. 11. A retractable hook assembly as claimed in claim 4 wherein said front side of said bracket member and said front side of said arm includes graphic that is visible when said retractable hook assembly is in said retracted position and said hook member is concealed.

12. A retractable hook assembly as claimed in claim 4 wherein said retractable hook assembly is manufactured from plastic, resin, wood, metal or composite material.

5 13. A retractable hook assembly as claimed in claim 4 wherein said surface is a wall, door or vertical surface.

10 14. A retractable hook assembly as claimed in claim 4 wherein said distal end of said arm is hook shaped thereby being parallel to said bracket member when said arm is in said extended position.

15. A retractable hook assembly for mounting on a surface, comprising:

15 (a) a bracket member having a front side with multiple retracting grooves each having at least one positioning channel, and a back side adapted for mounting on said surface; and

(b) multiple hook members having proximal ends and distal ends, said proximal ends having at least one projection adapted to engage said positioning channel when said hook members are in extended positions;

20 wherein said front side of said bracket member is adapted to receive said hook members into said retracting grooves when in a retracted position thereby concealing said hook members.

25 16. A retractable hook assembly as claimed in claim 15 wherein each of said positioning channel has a top side and bottom side providing a cam surface, and each of said projection is a cam whereby said cam engages said top side or cam surface of each of said positioning channel when each of said hook members is in said extended position and said cam engages said bottom side or cam surface when each of said hook members is in said retracted position.

17. A retractable hook assembly as claimed in claim 16 wherein said retracting grooves each has two sides and has two positioning channels located on either side of each of said retracting grooves.

5 18. A retractable hook assembly as claimed in claim 17 wherein said hook members are arms each having two sides, a front side and back side, and each having two cams on either side of each of said arms to engage each of said two positioning channels.

10 19. A retractable hook assembly as claimed in claim 18 wherein each of said cams engage said top sides of said positioning channels allowing said arms to extend to a maximum of 45°.

15 20. A retractable hook assembly as claimed in claim 19 further comprising additional ribs to form said positioning channels and said cam surfaces thereby engaging and restricting said cams when in either said extended or retracted positions.